Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 71041JJJ55MP			FOR FURTHER ACTION	ON	See Form PCT/IPEA/416	
International application No.			International filing date (da	ay/month/year)	Priority date (day/month/year)	
PCT/FR2004/001009			27.04.2004		28.04.2003	
	al Patent Classification	(IPC) or nati	onal classification and IPC			
pplicant	ER-BUGATTI					
	-	•	ninary examination report, te applicant according to Ar	•	International Preliminary Examining Authority	
2. T	his REPORT consists o	f a total of	4	sheets, including	g this cover sheet.	
3. T	his report is also accom	panied by A	NNEXES, comprising:			
a	. (sent to the a	pplicant and	to the International Bureau) a total of	sheets, as follows:	
		containing re			amended and are the basis for this report and/or alle 70.16 and Section 607 of the Administrative	
					nsiders contain an amendment that goes beyond I in item 4 of Box No. I and the Supplemental	
ь		nternational	Bureau only) a total of (ind	icate type and numbe	er of electronic carrier(s))	
					_ , containing a sequence listing and/or tables	
			r readable form only, as inc trative Instructions).	dicated in the Supple	emental Box Relating to Sequence Listing (see	
4. T	his report contains indi	cations relati	ing to the following items:			
	Box No. I	Basis of the	e report			
	Box No. II	Priority				
	Box No. III	Non-establ	ishment of opinion with reg	ard to novelty, inven	tive step and industrial applicability	
	Box No. IV	Lack of uni	ity of invention			
	Box No. V		statement under Article 35(2 and explanations supporting s		elty, inventive step or industrial applicability;	
	Box No. VI	Certain do	cuments cited			
	Box No. VII	Certain def	ects in the international app	lication		
	Box No. VIII	Certain ob:	servations on the internation	al application		
Date of sul	bmission of the demand	i	Da	te of completion of the	his report	
Name and	mailing address of the	IPEA/EP	Au	thorized officer		
Facsimile l	No		To	enhane Na		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FR2004/001009

Box	No. I	Basis of the report
1.	With	n regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise cated under this item.
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
		international search (Rule 12.3 and 23.1(b))
		publication of the international application (Rule 12.4)
		international preliminary examination (Rule 55.2 and/or 55.3)
2.	recei	n regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the iving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to report):
		the international application as originally filed/furnished
	\boxtimes	the description:
		pages 1-22 as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
	\boxtimes	the claims:
		nos. 1-12 as originally filed/furnished
		nos.* as amended (together with any statement) under Article 19
		nos.* received by this Authority on
		nos.* received by this Authority on
	M	
		the drawings:
		sheets 1/5-5/5 as originally filed/furnished
		sheets* received by this Authority on
		sheets* received by this Authority on
ļ	\sqcup	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	Ш	The amendments have resulted in the cancellation of:
		the description, pages
		the claims, nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to sequence listing (specify):
*	If it	em 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/001009

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement						
	Novelty	(N) Claims 1-12	YES				
		Claims					
	Inventiv	ve step (IS) Claims	YES				
		Claims 1-12					
	Industri	al applicability (IA) Claims 1-12	YES				
		Claims					
2.	Citations a	nd explanations (Rule 70.7)					
	1.	In the present report, reference is made to the					
		following documents:					
		D1: US 6 001 419 A (DELPERIER BERNARD ET AL) 14					
		December 1999 (1999-12-14)					
		D2: GLASIER G F ET AL: "Formation of pyrolytic ca	rbon				
		during the pyrolysis of ethane at high					
		conversions" CARBON, vol. 39, no. 1, January	2001				
		(2001-01), pages 15-23, XP004319819 ISSN: 000	8-				
		6223					
	2.	D1 (see claims and examples), which is considered	to				
		be the prior art closest to the subject matter of					
Ì		claim 1, describes a chemical infiltration method	for				
		densifying porous substrates using carbon. Paramet	ers				
		(for example, pressure or temperature) are varied					
		according to a predetermined model so as to contro	ol				
		the microstructure and reduce the total duration of	of				

2.1 Consequently, the subject matter of claim 1 differs from the teaching of D1 in that the content of a compound selected from among allene, propyne and benzene present in the flue gases is measured and, depending on the measured content, the method is

the method.

infiltration parameters.

Box No. V

	citations and explanations supporting such statement					
	controlled by adjusting the pressure or the					
	temperature, for example.					
2.2	The problem that the present invention is intended to solve can be considered to be that of providing a					
	method controlled in real time so as to optimise the					

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

2.3 The solution proposed in claim 1 of the present application is not considered inventive (PCT Article 33(3)) for the following reasons:

> It is known from D2 (see "2. Experimental": 3.2 "Rates as a function of concentration" and figure 7) that the benzene content of the flue gases in pyrolytic carbon deposition methods is a good indication of carbon deposit kinetics. It is obvious for a person skilled in the art to use the relationship between the benzene content and the kinetics to arrive at a method according to D1 controlled in real time.

> Consequently, a person skilled in the art seeking to solve the stated problem would combine the features described in D1 and D2, without exercising inventive skill. The solution proposed in independent claim 1 cannot therefore be considered to involve an inventive step (PCT Article 33(3)).

2.4 Dependent claims 2 to 12 contain no features which, when combined with the features of any one of the claims to which they refer, meet the PCT requirements of novelty and inventive step (PCT Article 33(2) and (3)).